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AUTHOR: Taymanov, A.D. (Ivanovo)

S/039/60/052/001/003/009 XX
C111/C222

TITLE: On Closed Mappings II 14

PERIODICAL: Matematicheskii sbornik, 1960, Vol. 52, No. 1, pp. 579-588

TEXT: The present paper is a continuation of the investigation (Ref. 2). Let f be a continuous mapping of the metric space R onto the metric space R_1 ; R^* be a bicomact extension of R onto which f is continuously continuous; $f^* : R^* \rightarrow R_1^*$ and $f^* = f$ on R . The mapping f determines a decomposition of R into closed sets $f^{-1}(y)$, where $y \in f(R) = R_1$. R^* decomposes into the sum of the closed sets $f^{-1*}(y)$, $y \in R_1^*$. Every element of the decomposition of R is contained in a single element of the decomposition of R^* . For an arbitrary set $A \subset R^*$ let A^0 be the set $A \cap R$ and A^* be the set $A \cap (R^* \setminus R)$. Let X be an element of the decomposition of R^* , let it contain an element of the decomposition R and let it be different of it; then $X \cap R \neq \emptyset$ and $X \cap (R^* \setminus R) \neq \emptyset$. Every X of this kind can be re-

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On Closed Mappings II

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presented as a sum of non-empty sets X^0 and X^* , $X^0 \cap X^* = \emptyset$. Let N be the set theoretical sum of all such X , furthermore let $N^0 = N \cap R$. It holds $N_1 = f^*(N) \subset R_1$.

The element of the above kind $X = f^{-1*}(y)$, $y \in R_1$, of the decomposition of R^* is called marked if $(R \setminus X^0)^* \cap X = \bigwedge (\bar{A}^*$ is the closure of A in R^* and \bar{A} is the closure of A in R).

Theorem 1: If f is a continuous closed mapping of the metric space R onto the metric space R_1 , then the cardinality of the set N_1 is not greater than

the weight of an arbitrary bicomact extension R^* of R onto which f is continuable. A lemma on marked elements of (Ref. 6) is used for the proof.

Conclusion 1: If R is separable and metric and f is closed, then N_1 is at most countable.
Conclusion 2: If R is separable and metric, f is closed, and if one moves from $f(R)$ the countable set N_1 and from R the inverse image $f^{-1}(N_1)$, then one obtains a compact mapping of the set $R \setminus f^{-1}(N_1)$ onto $f(R) \setminus N_1$.

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Then the author proves three special cases of the theorems of I.A. Vaynshteyn (Ref. 1) on closed mappings of metric spaces, e.g.:

Theorem 3 : Let f be a closed mapping of the metric space R onto the metric space R_1 . If R is an absolute metric G_ξ , then R_1 is an absolute metric G_ξ too.

Furthermore the question of invariance of the classes of the B-sets is investigated for compact and closed mappings, respectively.

Theorem 6 : For a compact mapping f the class ξ of Borel sets remains fixed if $\xi \geq \omega_0$ and it grows larger at most by 1 if $1 < \xi < \omega_0$.

Theorem 7 : Let f be a closed mapping of the B-set A of the class $\xi \geq 1$ onto the set B . In this case the set B is a B-set of the class $\leq \xi$ if $\xi \geq \omega_0$ and of the class $\leq \xi + 1$ if $1 \leq \xi < \omega_0$.

The author mentions V. Ponomarev. He thanks L.V. Keldysh for advices. There are 7 Soviet references.

[Abstracter's note: (Ref. 2) is a paper of the author in *Matematicheskii* Card 3/4

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On Closed Mapping II

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C111/C222

sbornik, 1955, Vol. 36, pp. 349-352 ; (Ref. 6) is a paper of the author
in Uspekhi matematicheskikh nauk, 1960, Vol. 15, No. 5, pp. 187-190]

X

SUBMITTED: January 8, 1959

Card 4/4

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B112/B231

16.5400

AUTHOR: Taymanov, A. D.

TITLE: Continuation of monotone mappings into monotone mappings of bicompacts

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 135, no. 1, 1960, 23-25

TEXT: With the present work the author gives an answer to V. Ponimarev's question whether it is always possible for a monotone mapping f of space X on space Y to be continued in a monotone mapping f of a (bicomcompact) extension bX on a (bicomcompact) extension bY . The answer is "yes" in case that the extension bY is a maximum ($= \beta Y$). The author quotes two examples, suggested by Yu. M. Smirnov, which demonstrate that, on the one hand, the condition $bY = \beta Y$ is essential even for identical mappings and that, on the other hand, the following theorem cannot be applied to any mappings: If bX is an arbitrary extension of a completely regular space X ; if βY is a maximum extension of the normal space Y ; if f_0 is a (continuous) mapping of the bicompactum bX on βY , representing a (unique) continuation of the

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Continuation of monotone mappings into...

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monotone mapping f of space X on space Y ; if, finally, f is open or closed, the continuation f_b will also be monotone. The author furnishes the proof in a version simplified by V. T. Levshenko and Yu. M. Smirnov. P. S. Aleksandrov is mentioned. There is 1 Soviet-bloc reference. ✓

ASSOCIATION: Matematicheskii institut Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Mathematics of the Siberian Department of the Academy of Sciences USSR)

PRESENTED: June 11, 1960, by P. S. Aleksandrov, Academician

SUBMITTED: May 11, 1960

Card 2/2

ARKHANGEL'SKIY, A.; TAYMANOV, A.

In connection with Ionomarev's theorem. Dokl. Ak. SSSR 135 no.2:
247-248 N '60. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet im.M.V.Lomonosova i
Institut mekhaniki Sibirskogo otdeleniya AN SSSR. Predstavleno
akademikom P.S. Aleksandrovym.
(Topology)

TAYMANOV, A. D.

Doc Phys-Math Sci, Diss -- "Certain problems on the propagation of reflections". Novosibirsk, 1961. 19 pp, 21 cm (Acad of Sci USSR, Siberian Dept of the Joint Sci Council on Phys-Math and Tec Sci), 220 copies, No charge, 18 ref in bibl on pp 18-19 (KL, No 9, 1961, No 24241). [61-55886]

TAYMANOV, A.D.

Characteristic of finite-axiomatized classes of models. Sib. mat.
zhur. 2 no.759-766 S-O '61. (MIRA 15:3)
(Logic, Symbolic and mathematical)

TAYMANOV, A.D.

Characteristics of axiomatizable classes of models. Izv. AN SSSR.
Ser.mat., 25 no.4:601-620 J1-Ag '61. (MIRA 14:8)
(Topology)

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S/038/61/025/006/001/004
B112/B108

AUTHOR: Taymanov, A. D.

TITLE: Characteristics of axiomatizable classes of models. II

PERIODICAL: Akadimiya nauk SSSR. Izvestiya seriya Matematicheskaya, v. 25, no. 6, 1961, 755 - 764

TEXT: This paper continues earlier publications by the author (Izvestiya Ak. nauk SSSR, seriya matem., 25 (1961), 601 - 620.) and by A. Robinson (Indag. Math., XII, fasc. 5, 489 - 95.). An extension of the theorem of Łoś and Suzko is given. This theorem concerns the problem of equivalence of two systems of axioms with respect to a given system of axioms. The systems S and T are said to be equivalent with respect to the system K ($S \sim T \pmod{K}$) if T can be derived from S and K , and if S can be derived from T and K . $M(S)$ denotes a class of models which can be defined by means of axioms of the system S . A system H of axioms is said to be σ -stable with respect to the system K if all the sequences $\{m_i\} \in M(K)$ ($i = 1, 2, 3, \dots$) satisfy the following condition: $m_i \in M(K, H)$ and $\bigcup_{i=1}^{\infty} m_i = M(K)$ 4

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Characteristics of axiomatizable classes ... ³⁰⁸²⁶ S/038/61/025/006/001/004
B112/B108

imply $\forall \mathcal{M}(H)$. The author generalizes a theorem concerning σ -stability, established by A. Robinson. Some results of Robinson's paper are applied to formulas with free variables. D. A. Zakharov is mentioned. A. I. Mal'tsev and A. V. Gladkiy are thanked for advice. There are 8 references: 3 Soviet and 5 non-Soviet. The four most recent references to English-language publications read as follows: Tarski A., Contributions to the theory of models. I, II, III, Indag. Math., 16 (1954), 572, 582; 17 (1955), 55; Los I., On the extending of models (I), Fund. Math., 42 (1955), 38 - 54; Robinson A., Completeness and persistence in the theory of Models, Zeitschr. f. Math. Logik und Grund. d. Math., 2 (1956), 15 - 26. Chang C., On the unions of models, Proc. Am. Math. Soc., 10, no. 1 (1959), 120 - 127.

SUBMITTED: June 6, 1960

Card 2/2

TAYMANOV, A.D.

Characteristics of certain classes of models capable of finite
axiomatization. Dokl. AN SSSR 138 no.1:67-69 My-Je '61.
(MIRA 14:4)

1. Matematicheskiy institut Sibirskogo otdeleniya AN SSSR.
Predstavleno akademikom A.I. Mal'tsevyam.

(Axioms)

(Surfaces, Models of)

(Conformal mapping)

TAYMANOV, A. D.

"The characteristic of elementary classes of models"

report submitted at the Intl Conf of Mathematics, Stockholm, Sweden,
15-22 Aug 62

TAYMANOV, A.D.

Limit of a uniformly convergent sequence of compact mappings of
a metric space onto a local compact space is a closed mapping.
Sib.mat.zhur. 3 no.2:310-311 Mr-Apr '62. (MIRA 15:4)
(Transformations (Mathematics)) (Spaces, Generalized)
(Convergence)

TAYMANOV, A.D.

Solvability of the elementary theory of inclusion of spheres.
Alg. 1 log. 2 no.3:23-27 '63. (MIRA 17:8)

TAYMANOV, A.D.

Characteristics of axiomatizable classes of models. Alg. i log. i
no.4:5-31 '62. (MIRA 18:1)

YERSHOV, Yu.L.; LAVROV, I.A.; TAYMANOV, A.D.; TAYTELIN, M.A.

Elementary theories. Usp. mat. nauk. 20 no.4:37-103 21-Aug '65.

(YURA 1965)

TEPLYAKOV, A.; POSYSAYEV, N.; TAYMANOV, E.

Soviet engineering news, HT0 2 no.12:58-59 D '60.
(Technological innovations)

(MIRA 14:3)

TAYMATOVA, R.Sh.

Finding of Trichomonas elongata in the crypts of the pharyngeal tonsils in chronic tonsillitis. Med. zhur. Uzb. no.5:76 My '61.

(MIRA 14:6)

1. Iz Republikanskogo protivotuberkuleznogo dispansera No.1, UzSSR.

(TRICHOMONAS)

(TONSILS—DISEASES)

TAYMATOVA, R.Sh.

Subfebrile chronic tonsillitis simulating tuberculous intoxication.
Pediatriia 41 [i.e. 42] no.2:85-89 F '63. (MIRA 16:4)

1. Iz Uzbeksogo respublikanskogo protivotuberkuleznogo dispansera
(nauchnyy rukovoditel' - prof. A.A.Saidakhmedov, glavnyy vrach -
kand.med.nauk A.A.Kalankhodzhayev).
(TONSILS--DISEASES) (TUBERCULOSIS) (CHILDREN--DISEASES)

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

1. *Chrysomelidae* (10 species)

HR/0286/65/000/010/0083.1083

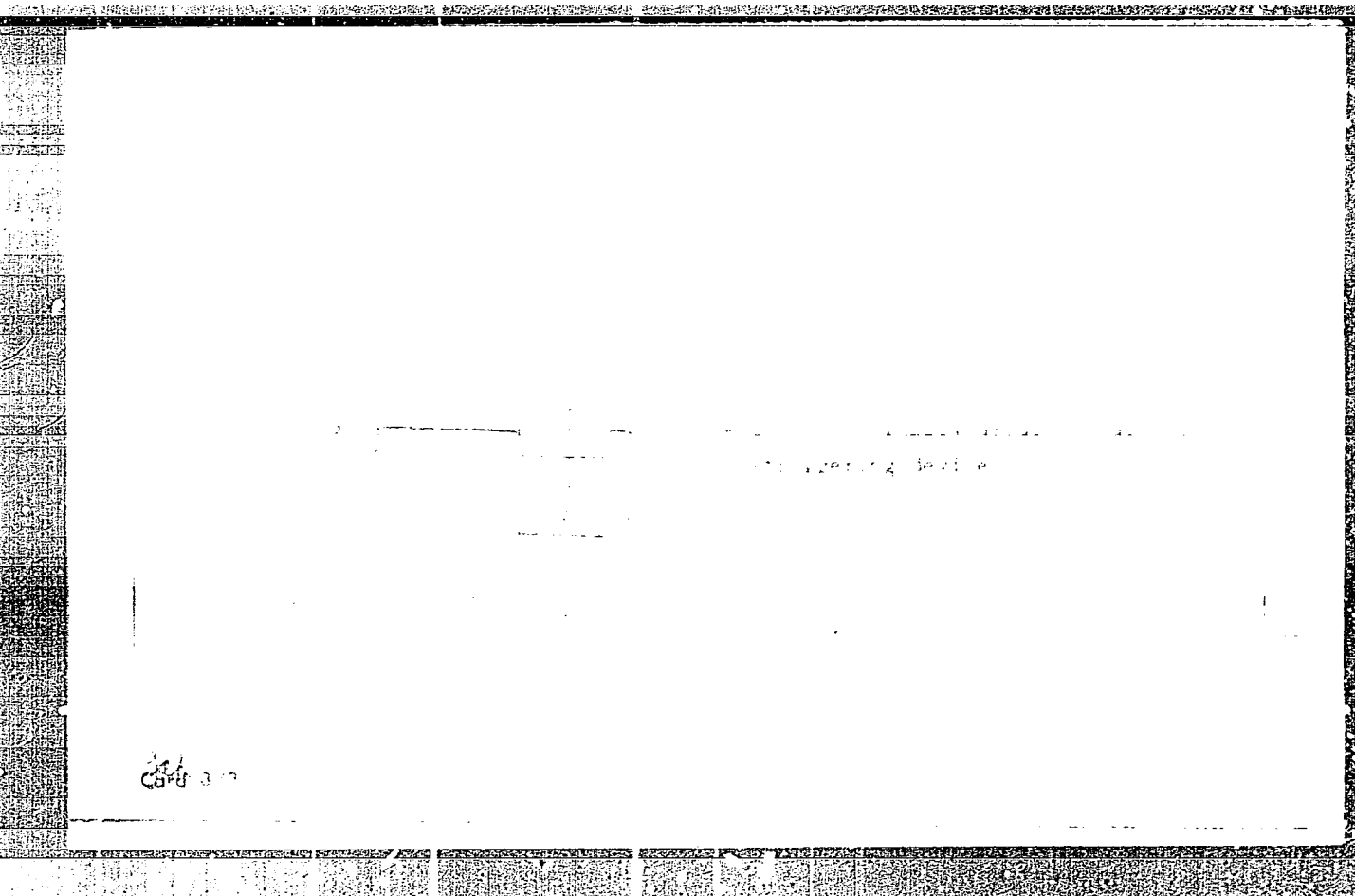
Figure 4 is a counter based on a ladder network of series connected diodes

"APPROVED FOR RELEASE: 07/16/2001

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CIA-RDP86-00513R001755130001-8"



TAYMAYEV, Zh., gornyy inzh.

New drilling tool for bar drilling. Gor. zhur. no.3:50-51 Mr '62.
(MIRA 15:7)

1. Altayskiy gorno-metallurgicheskiy institut AN Kazakhskoy SSR,
Ust'-Kamenogorsk.

(Boring machinery)

BALABOLKIN, A.N.; TAYMAYEV, Zh.

Using core bits and rods made of thin pipe in boring with rock drills. Bor'ba s sil. 5:171-173 '62. (MIRA 16:5)

1. Gorno-metallurgicheskiy nauchno-issledovatel'skiy institut AN KazSSR.

(Rock drills)

(Mine dusts—Prevention)

GREBENYUK, V.A.; PUSTALOV, A.I.; KOROGOD, G.I.; TAYMAYEV, Zh.T.

Purifying dust-laden air by an aqueous-viscous chip filter. Trudy
Alt. GIMNII AN Kazakh. SSR 15:59-63 '63. (MIRA 17:3)

BALOBOLKIN, A.N.; TAYMAYEV, Zh.T.

Settling boring dust in vacuum conditions. Trudy Alt. GMI AN
Kazakh. SSR 15:64-68 '63. (MIRA 17:3)

YERDALIYEV, A.Ye., kand. tekhn. nauk; TARMAYEV, Zh.T., inzh.

Dust formation control during boring with perforators. Ber'ba
s sil. 6:97-101 '64 (MIRA 18:2)

1. Altayskiy gornometallurgicheskiy nauchno-issledovatel'skiy
institut.

TAYMAZOV, E.

Strive for effective control. Fin.SSSR 20 no.11:69-70
N '59. (MIRA 12:12)

1. Nachal'nik otdela finansirovaniya narodnogo khozyaystva
Fergoskogo oblfinotdela. .
(Fergana Economic Region)

TAYMAZOV, E.

Checking the use of electric power. Fin.SSSR 21 no.5:66-68
My '60. (MIRA 13:7)

1. Nachal'nik otдела finansirovaniya narodnogo khozyaystva
Ferganskogo oblfinotdela.
(Fergana Province--Electric power distribution)

TAYMER, A.D.

MINKEVICH, A.N., kandidat tekhnicheskikh nauk; TAYMER, A.D., inzhener; ZOT'YEV, Yu.A., inzhener.

Nitriding titanium in ammonia gas. Metalloved. i obrabot.no.7:39-48 J1
'56. (MIRA 9:9)

L.Moskovskiy institut stali imeni I.V.Stalina.
(Cementation (Metallurgy)) (Titanium)

TAYMETOV, A. (Tashkent)

An aircraft is not a football. Grashd.av. 19 no.9:8-9 8
'62. (MIRA 16:1)

(Aeronautics in agriculture)

TAYMURAZOVA, L.Kh.; IGNAT'YEVA, I.A.

Study of the interaction between minerals and polymers by infrared spectroscopy method. Vest.Mosk. un. Ser. 6: Biol., pochv. 20 no.2: 81-86 Mr-Apr '65. (MIRA 18:5)

1. Kafedra fiziki i melioratsii pochv Moskovskogo universiteta.

TAYMURAZOVA, L.Kh.

Adsorption of hydrolyzed polyacrylamide by minerals and soils.
Vest. Mosk.un. Ser. 6: Biol., pochv. 20 no.5:86-90 S-0 '65.

(MIRA 18:11)

1. Kafedra fiziki i melioratsii pochv Moskovskogo universiteta.
Submitted April 27, 1965.

TAYMUROV, G.I., polkovnik med. sluzhby.

Table for intravenous injections. Voen.-med.shur. no.11:83-84 N '56.
(BLOOD TRANSFUSION) (MIRA, 12:1)
(SURGICAL INSTRUMENTS AND APPARATUS)

L 36355-66 EWT(1)

ACC NR: AP6005298

SOURCE CODE UR/0413/66/000/001/0038/0038

INVENTOR: Taymenov, R. Ye.

ORG: none

TITLE: Stabilized frequency generator. Class 21, No. 177468

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki,
no.1, 1966, 38

TOPIC TAGS: generator, current amplifier, tunnel diode, *control circuit*

ABSTRACT: An Author Certificate has been issued for a stabilized frequency generator containing a series-connected generator with a tunnel diode and a d-c amplifier. To stabilize the generator frequency during changes in the supply voltage, a differentiated

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UDC: 621.373.421.

L 36355-66

ACC NR:AP6005298

peak detector is connected between the circuit of the frequency generator and the d-c amplifier control circuit. (see Fig. 1).
Orig. art. has: 1 figure. [NT]

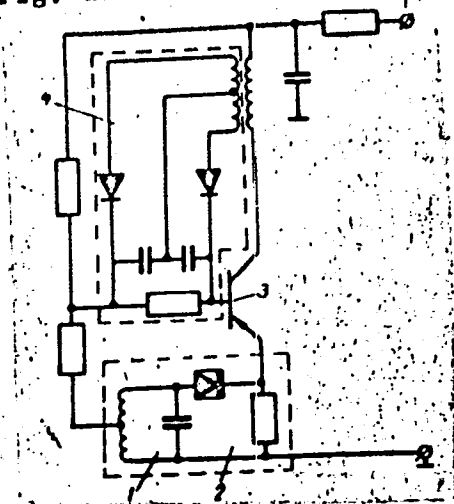


Fig. 1. Stabilized frequency generator. 1-circuit; 2-frequency generator with a tunnel diode; 3-d-c amplifier; 4-differentiated peak detector.

SUB CODE: 09/ SUBM DATE: 01Jun64

Card 2/2

124-1957-1-165

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 17 (USSR)

AUTHOR: Taynov, A. I.

TITLE: To the Problem of Minimizing Parasitic Friction Losses in
Machines (K voprosu umen'sheniya vrednykh soprotivleniy
v mashinakh)

PERIODICAL: V sb. : Uvelicheniye dolgovechnosti i snizheniye vesa mashin.
Minsk, Gosizdat BSSR, 1955, pp 193-207

ABSTRACT: Analysis of two elementary problems which serve to clarify
some very general concepts regarding the effect of certain
construction features on the efficiency of machines and
mechanisms.

V. N. Geminov

1. Machines--Friction--Analysis

Card 1/1

SOV/124-57-4-3948

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 14 (USSR)

AUTHOR: Taynov, A. I.

TITLE: Kinematic Pairs as Connections (Kinematicheskiye pary kak svyazi)

PERIODICAL: Sb. nauch. tr. Belorus. lesotekhn. in-t, 1956, Nr 8, pp 230-242

ABSTRACT: The author suggests that the order of a kinematic pair be considered equal to the number of the degrees of freedom of the relative motion of its links. Various types of actually realizable kinematic pairs are examined. By referring a worm-gear pair to the fifth order the author contradicts his own classification.

S. G. Kislitsin

Card 1/1

124-58-9-9557

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 14 (USSR)

AUTHOR: Taynov, A. I.

TITLE: Friction in Irrotational Pairs (Treniye v postupatel'nykh parakh)

PERIODICAL: Sb. nauchn. tr. Belorussk. lesotekhn. in-t, 1957, Nr 10,
pp 349-358

ABSTRACT: A graphical method for the solution of problems of the motion of a body along a horizontal and an inclined plane with eccentric and arbitrary application of the driving force. In conclusion a nomogram is provided, wherein the methods propounded are brought to fruition. There are many errors in the text and in the sketches.

1. Friction--Theory
2. Friction--Nomographs
3. Nomographs--Errors

M. K. Kristi

Card 1/1

SOV/124-58-7-7398

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 11 (USSR)

AUTHORS: Taynov, A.I.

TITLE: Hyperboloidal Cam Mechanisms (Kulachkovyye mekhanizmy giperboloidal'noy sistemy)

PERIODICAL: Sb. nauchn. tr. Belorussk. politekhn. in-t, 1957, Nr 57, pp 3-14

ABSTRACT: The structure is examined of a mixed family of mechanisms each of which contains one lower pair and an infinite number of higher pairs; examined also are means of obtaining such mechanisms. The structural make-up of very simple and more complex hyperboloidal cam mechanisms is shown through arrangement in successive layers of normal-type groups of the higher family of this hyperboloidal system, or through arrangement in layers of the more complex groups.

M.K. Kristi

1. Cams--Analysis

Card 1/1

25(2)

PHASE I BOOK EXPLOITATION

SOV/3188

Taynov, Aleksey Ivanovich, Docent

Osnovy teorii struktury mekhanizmov (Fundamentals of the Theory of Structure of Mechanisms) Minsk, Red.-izd. otdel BPI im. I. V. Stalina, 1958. 198 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Belorusskiy politekhnicheskii institut im. I. V. Stalina.

Ed.: A. G. Blyum; Tech. Ed.: N. V. Kapranova.

PURPOSE: This book is intended for specialists in applied mathematics and other interested in the theoretic-algebraic foundations of modern machine construction.

COVERAGE: This book is a summary of a dissertation, Teoriya struktury mekhanizmov, in which the author reported the results of an experiment he made to construct a generalized theory of the structure of mechanisms. In this theory, fundamental attention

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Fundamentals of the Theory (Cont.)

SOV/3188

is given to the study and establishment of the natural laws of constructing structural systems, including not only the mechanisms themselves, but also their component elements: kinematic couples and Assur groups. Although many details in the dissertation have been left out of the book, it contains most of the essential material. No personalities are mentioned. There are 136 references: 103 Soviet, 26 German, 4 English, and 3 French.

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AVAILABLE: Library of Congress

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AC/os
3/22/60

TAYNOV, A.I. [Tainou, A.I.], kand.tekhn.nauk

Mechanisms of a finite system of the first type. Vesti
AN BSSR.Ser.fiz.-tekhn.nav. no.4:62-76 '59.

(MIRA 13:4)

(Mechanics)

TAYNOV, Aleksey Ivanovich; OPEYKO, F.A., prof., doktor tekhn.nauk,
retsensent; YAKOVLEV, N.F., dotsent, kand.tekhn.nauk, retsensent;
BATISHCHE, A.D., nauchnyy red.; KAPRAMOVA, N.V., red.; KUZ'MENOK,
P.T., tekhn.red.

[Kinetostatics of crank and connecting rod mechanisms of a plane
system according to the reduction method] Kinetostatika shar-
nirno-stershnevykh mekhanizmov ploskoi sistemy po metodu pri-
vedeniia. Minsk, Belorusskii polit.in-t im. I.V.Stalina, 1960.
157 p. (MIRA 14:2)

1. Chlen-korrespondent AN i Akademii sel'skokhozyaystvennykh nauk
BSSR (for Opeyko).
(Machinery, Kinematics of)

PHASE I BOOK EXPLOITATION

SOV/4740

Taynov, Aleksey Ivanovich

Novyye vidy zubchatykh peredach (New Types of Gearings) Minsk, Izd-vo AN BSSR,
1960. 187 p. Errata slip inserted. 5,100 copies printed.

Ed. of Publishing House: L. Timofeyev; Tech. Ed.: I. Volokhanovich;
Ed.: L.I. Fedorov, Candidate of Technical Sciences

PURPOSE: This book is intended for technical and scientific personnel at machine-
building establishments, scientific research institutes, and planning and
design organizations. It may also be used for teaching purposes at higher
and secondary technical schools.

COVERAGE: Taking friction and wear into account, the author analyzes in detail the
working conditions of gear-tooth profiles for various types of gearings. On the
basis of this analysis he specifies ways for improving the working conditions of
gear-tooth profiles and for obtaining the best results from involute, cycloidal
and lantern-pinion engagements by decreasing friction in the meshing elements.
The author also develops a new theory of engagement for helical gearings whereby

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New Types of Gearings

SOV/4740

friction is reduced to a minimum. No personalities are mentioned. There are 61 references: 59 Soviet, 1 French, and 1 German.

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Card 2/4	58

TAYNOV, Aleksey Ivanovich; FEDOROV, L.I., red.; MARIKS, L., red. izd-va;
SIDERKOV, N., tekhn. red.

[Flat mechanisms with forward moving pairs] Mekhanizmy ploskoi siste-
my s odnim postupatel'nymi parami. Minsk, Izd-vo Akad.nauk BSSR,
1961. 180 p. (MIRA 14:12)
(Mechanical movements)

TAYNOV, Aleksey Ivanovich; KAPRANOVA, N.V., red.; AKALOVICH, N.M.,
red.; KONCHITS, Ye.P., tekhn. red.

[Conic mechanisms] Mekhanizmy konicheskoi sistemy. Minsk,
Izd-vo M-va vysshego, srednego spetsial'nogo i professional'-
nogo obrazovaniia BSSR, 1961. 112 p. (MIRA 15:7)
(Mechanical movements)

ACCESSION NR: AP4035698

S/0057/64/034/005/0868/0872

AUTHOR: Gurov, S.V.; Dzhaferov, T.A.; Malinin, A.A.; Osadin, B.A.; Taynov, Yu.F.

TITLE: Electrode processes in high current vacuum discharges

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.5, 1964, 868-872

TOPIC TAGS: electric discharge, vacuum discharge, high current discharge, electrode erosion

ABSTRACT: Electrode erosion in high current vacuum discharges was investigated by high speed photography of the discharges and microscopic examination of the electrodes. The discharges took place between the ends of coaxial electrodes separated by teflon insulation and located in a chamber evacuated to approximately 3×10^{-5} mm Hg. The inner electrodes were 10 mm in diameter and were of steel, copper, tungsten or tin. The diameters of the outer electrodes were 20 and 28 mm; these were of lead, cadmium, tin, zinc or copper. The energy for the discharge was provided by a bank of electrolytic capacitors charged to from 200 to 300 V and having a capacity of 0.002 to 0.014 farad. The discharge was initiated by a vacuum spark. High speed photographs with a type SFR camera showed the development of a characteristic

Card 1/3

ACCESSION NR: AP4035698

cone of expelled erosion products. The generatrices of this cone made an angle of about 25° with the axis of the electrodes. The maximum intensity of radiation occurred approximately 15 microsec after the onset of discharge; visible expulsion of material ceased soon after this, but the electrodes continued to glow for several hundred microseconds. Time resolution photographs showed the presence of spatially limited plasma formations moving with velocities up to 1.5×10^6 cm/sec. These "microplasmoids" were 2 to 5 mm long (in the direction of motion), but their transverse dimensions were much smaller. Electrode material was deposited on the wall of the vacuum chamber near the electrodes. In addition to this, there was a well-focused beam of ignited metal in the direction of the axis of the electrodes. The diameter of this beam increased only to 3 cm in a distance of one meter. The electrodes were polished to a mirror finish before the discharge. After the discharge the anode (inner electrode) showed dark spots several millimeters in diameter, and the cathode (outer electrode) was pitted with many small "microcraters". These microcraters were very numerous near the inner edge of the cathode, while the outer region was free of them. The microcraters were from 1 to 5 microns in diameter in the copper cathodes, and from 10 to 150 microns in diameter and from 2 to 10 microns deep in the cadmium, tin and zinc cathodes. The craters increased in size with increasing discharge energy. Droplets of metal (1 to 20 microns) could be seen on the

2/3

Card

ACCESSION NR: AP4035698

more easily melted cathodes. Although it was the cathodes that were pitted, the microplasmoids originated at the anodes. It is suggested that their high velocities may be due to electrodynamic accelerating forces of the type discussed by H. Maecker (Zs.phys., 141, 198, 1955). A simple regenerative mechanism is suggested to account for microcrater formation: a local increase of the metal vapor density reduces the thickness of the cathode drop region. This results in a local increase of the electric field, and hence of the current. The increased current increases the local temperature, and hence the local evolution of metal vapor. "In conclusion the authors express their gratitude to A.G. Iosif'yan, member of the Academy of Sciences of the Armenian SSR, for his interest in the work, and to Yu.P. Rylov and A.A. Stupin for discussing the results." Orig.art.has: 1 formula and 4 figures.

ASSOCIATION: none

SUBMITTED: 08Jun63

ATD PRESS: 3086

ENCL: 00

SUB CODE: ME, GC

NR REF SOV: 006

OTHER: 001

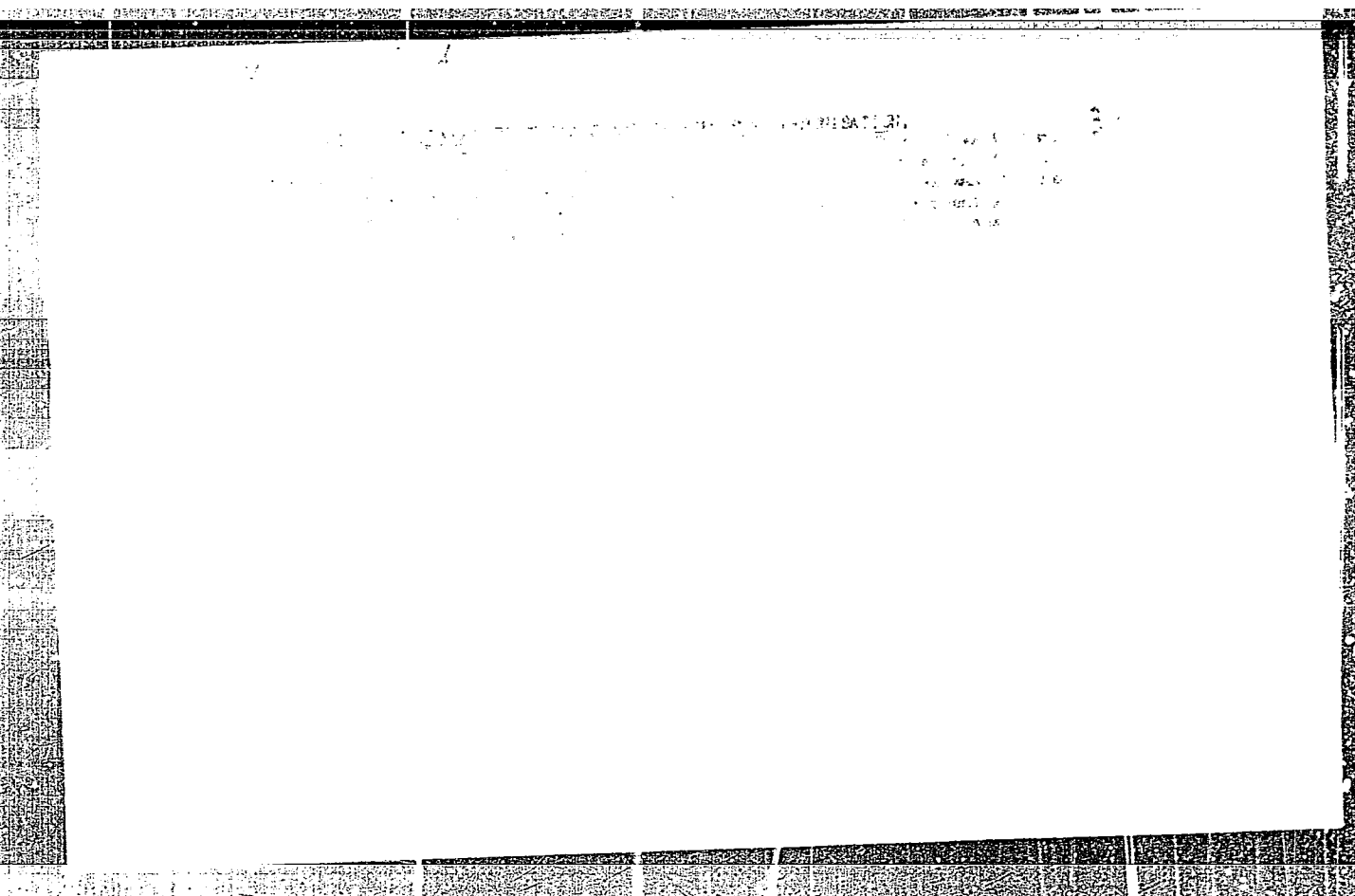
3/3
Card

SHAPIRO L.L., inzh; KATS, E.G.; NIKITINA, T.I.; TAYNOVICH, Z.S.

Reorganization of the lower echelon planning of building and
assembling operations in the "Sevzapmorgidrostoi" Trust. Trudy
TSNIIS no.34:113-126 '60, (MIRA 13:8)
(Wages) (Construction industry—Accounting)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755130001-8



APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755130001-8"

KIRCHEVA-FRIDLAND, S.S.; TAYONOV, A.T.

Blocking cervical and paravertebral neurovegetative ganglia by
erythematous doses of ultraviolet rays in the treatment of ulcers.
Vop.kur.fizioter. i lech. fiz.kul't. 21 no.3:48-53 J1-S '56.
(MIRA 9:10)

1. Iz Nauchno-issledovatel'skogo instituta kurortologii i fizioterapii
(dir. - doksent K.K.Kirchev), Sofiya (Bolgariya)

(PEPTIC ULCER)

(ULTRAVIOLET RAYS--THERAPEUTIC USE)

(NERVOUS SYSTEM, SYMPATHETIC)

TAYP, A.A.

21721

TAYP, A.A. Uluchshenie koefitsiyentov mashinostroyeniya promyshlennyykh
predpriyatiy. Sbornik materialov Nauch. - Tekhn. Sessii po ekonomii
elektroenergii. (Okt. 1947 G.) VYP. 5, 1949, S. 177-80

SO: Letopis' Zhurnal'nykh Statey, No. 20, Moskva, 1949

TAYPKIN, B. V.

BEYZEL'MAN, R. D. and TAYPKIN, B. V.

"Podshipniki Kacheniya - Bearings," Scientific and State Publishing House
for Literature on Machine Building and Shipbuilding, Moscow, 1954

Trans. of TABCON and short summary - D 164420, 20 Jan 55

USSR / Diseases of Farm Animals. Arachno-Entomoses.

R

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7491

Author : Tsyupurov, M. G.

Inst : Dagestan Scientific Research Institute of
Agriculture

Title : The Effect of Chlorten Upon the Organism of Sheep
and Upon Ixodidae

Orig Pub : Byul. nauchno-tekhn. inform. Dagestansk. n.-i. in-ta
s.-kh., 1957, No 1, 67-68

Abstract : It was shown that when sheep were bathed twice in a
0.5 percent emulsion and once in a 1 and 1.25 percent
chlorten emulsion, harmful aftereffects to the organism
of the animals were not produced. One and 1.25 percent
water emulsions of chlorten have acaricidal effects
upon *Dermacentor marginatus*, *D. pictus*, *Haemaphysalis*
otophilla, *H. punctata* ticks. -- From the author's
summary

Card 1/1

TAYRLIN, V.

N. Dobrotin, S. Nikol'ski, V. Tayrlin (P.N. Levedeb Physics Inst.)

Investigation by the method of proportional counters of genetically
bound impulses cosmic rays.

Akadeymiy Nauk SSSR, Doklady

61, 2, 1948, 249-51

From: B.N.L. Guide to R. Scientific Per. Lit, Oct. 23, 1948, Vol. 1, No.6

Taylor B L.

¹⁸ Tapping Liquid Pig Iron from the Blast Furnace Hearth. ¹⁸
H. I. Taylor and J. H. Dumbleton. ⁴ ₁₈₇₂

TA^YBAV, A. H.

Lect., Preliminary Surgical Clinic, Azerbaydzhan State Med. Inst. -cl941-.
"Penicillin Treatment of Abscesses," Khirurgiya, No. 9, 1949.

MAMEDOV, Z. M. (Prof.), TAYROV, A.N. (Doc.)
KAFAROV, I. I., TAGIYEVA, Z.

Penicillin - Therapeutic Use

Further observations of the effect of penicillin in diffuse peritonitis and laparotomies.
Khirurgiya no. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, August 1952 Uncl.

TAIROV, S.A.
PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

AID 158 - I

Call No.; TS1548.5.T3

BOOK

Author: TAIROV, S. A. and CHACHKHIANI, A. B.

Full Title: MACHINES AND APPARATUS IN THE ARTIFICIAL FIBER INDUSTRY

Transliterated Title: Mashiny i apparaty proizvodstva iskusstvennykh volokon

Publishing Data

Originating Agency: None

Publishing House: State Light Industry Publishing House (GISLEGROM)

Date: 1952

No. pp.: 396

No. of copies: 3,000

Editorial Staff

Editor: Greysman, A. A.

Tech. Ed.: Smol'yakova, M. V.

Editor-in-Chief: None

Appraiser: Kipershlak, Z. F.

Text Data

Coverage: A detailed description of equipment used in the production of artificial and synthetic fibers is given. Mechanized shop transportation is covered in the final chapter. Illustrations of steeping tanks, mixers, shredders, filters, spinning and finishing machines, etc. are given.

The book may be of interest to engineers specializing in the production of man-made fibers.

Purpose: The book is designed to serve as a handbook for the synthetic fiber industry and as a textbook for college students.

TAIROV, S.A.

AID 158 - I

Mashiny i apparty proizvodstva iskusstvennykh volokon

Facilities: Engineers N. Ya. Alekhin, F. I. Lavrushin, B. M. Lotarev, E. M. Mogilevskiy and M. A. Machekhin developed a process and constructed an apparatus in which the mercerization, shredding, pre-ripening, xanthation and dissolving of cellulose are carried out. All-Union Scientific Research Fiber Institute (VNIIV). Professor M. Yu. Lur'ye, Z. F. Kipershlak, Candidate of Technical Sciences, S. A. Tairov, Engineer, A. A. Kazymov, Engineer, and I. Z. Guslitser, Engineer constructed an apparatus where the evaporation and heating of the precipitation bath is carried out with flue gases by the contact method. Aranovich, V. M.; Blumberg, Ts. M.; Main Administration of Machine Building for Light Industry; Pavlov, A. M. Svetozarov, V. A.; All-Union Heat Engineering Institute of the Order of the Red Banner of Labor Plant im. Marks (location not indicated) - produces machinery for the synthetic fiber industry.

No. of Russian and Slavic References: 27

Available: Library of Congress.

2/2

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2. USSR (600)
4. ARMENIA - PLANT INTRODUCTION
7. Results of experiments in introducing some arborescent and shrub varieties in the Botanical Garden. Biul. Bot. sada An Arm. SSR no. 5, 1948

9. Monthly List of Russian Accessions. Library of Congress, March 1953 Unclassified

TAYS, N. U.; BAUM, V. A.; BUDRIN, D. V.; VASHENKO, A. I.; OLINKOV, M. A.; GRANOVSKIY, B. L.;
KITAYEV, B. I.; KUZMIN, M. A.; MIKHAYLENKO, A. Ya.; NAZAROV, I. S.; PLOTNIKOV, L. A.;
SEMIKIN, I. D.; TROIB, S. G.

Metallurgicheskie Peui (Metallurgical Furnaces), 975 p., 1951.

LUKASZEWICZ-DANCOWA, Danuta; WROBLEWSKA, Monika; BOGOSAVLJEVIC, Halina;
DOBROWOLSKA, Halina; TAYSCH, Zofia; WROBLEWSKA, Zofia

Role of enteroviruses in aseptic cerebrospinal meningitis in
children. Polski tygod. lek. 16 no.40:1524-1529 2 0 '61.

1. Z Miejskiego Szpitala Zakaznego Nr 3 w Warszawie; dyr.: doc.
Marks-Zakrzewska, ordynator oddzialu neuroinfekcji; dr Danuta
Lukaszewicz-Dancowa i z Panstwowego Zakladu Higieny w Warszawie;
dyr.: prof. dr med. F. Przesmycki.

(ENCEPHALITIS virol) (VIRUS DISEASES in inf & child)

CEGLECKA-TOMASZEWSKA, Krystyna; TAYSCH, Zofia; WANKOWICZ, Regina

Clinical diagnosis and microbiological verification of Bornholm disease (pleurodynia). *Pediat. pol.* 37 no.10:1029-1032 0 '62.

1. Z Kliniki Terapii Chorob Dzieci AM w Warszawie; Kierownik: prof. dr med. H. Brokman i z Panstwowego Zakladu Higieny -- Zaklad Wirusologii, Pracownia Enterowirusow. Kierownik: prof. dr med. F. Przesmycki.
(PLEURODYNIA EPIDEMIC)

TAYSHINA, N.M.

MAYEVSKIY, M.M.; AVDEYEVA, I.A.; ROMANENKO, Ye.A.; URAZOVA, A.P.; BONDIAREVA, A.S.;
TIMOFEEVSKAYA, Ye.A.; MAZAYEVA, V.G.; GOR'KOVA, N.P.; TAYSHINA, N.M.

Aurant in and its effect on experimental tumors. Antibiotiki
4 no.4:43-46 J1-Ag '59. (MIRA 12:11)

1. Laboratoriya eksperimental'noy bioterapii (zav. - chlen-
korrespondent AMN SSSR prof.M.M.Mayevskiy) Institute eksperimental'-
noy patologii i terapii raka AMN SSSR.
(ANTINEOPLASTIC AGENTS pharmacol)
(ANTIBIOTICS pharmacol)

STUPISHIN, A.V., prof.; BABANOV, Yu.V., ml. nauchn. sotr.;
GUSEVA, A.A., ml. nauchn. sotr.; DUGLAV, V.A., dots.;
ZAKHAROV, A.S., dots.; KOSTINA, N.M., assistant; LAVROV,
D.D., dots.; LAPTEVA, N.N., assistant; ROMANOV, D.F., ml.
nauchn. sotr.; SIROTKINA, M.M., aspirant; SMIRNOVA, T.A.,
ml. nauchn. sotr.; TORSUYEV, N.P., st. prepod.; TAYSIN.
A.S., st. prepod.; TROFIMOV, A.M., assistant; KHARITONICHEV,
A.T., prepod.; STUPISHIN, A.V., red.; KHABIBULLOV, R.K.,
red.

[Establishing physicogeographical regions in the middle
Volga Valley] Fiziko-geograficheskoe raionirovanie Sred-
nego Povolz'ia. Kazan', Izd-vo Kazanskogo univ., 1964. 196 p.
(MIRA 18:12)

BIRNBAUM, M.; POPESKU, V.; TAYTEL, T.

Relay-operated detector of gamma radiation. Prib.i tekhn.eksp.
6 no.5:62-64 S-0 '61. (MIRA 14:10)

1. Institut atomnoy fiziki, Bukharest, Rumynskaya Narodnaya
Respublika.

(Gamma rays) (Nuclear counters)

APSIT, Voldemar Voldemarovich [Apsits, V.]; TAYTEL'BAUM, A., red.;
PAEGLIS, Ya. [Paeglis, J.], tekhn. red.

[Synchronous machinery with hooked poles] Sinkhronnye ma-
shiny s kogteobraznymi poliusami. Riga, Izd-vo Akad.nauk
Latviiskoi SSR, 1959. 297 p. (MIRA 15:2)
(Electric machinery, Synchronous)

TAYTEL'BAUM, E.Ya.; ANOSHINA, N.P.

Thermographic study of the crystallization of nairit KP, a chloroprene rubber. Vysokom. soed. 7 no.6:978-983 Jo '65. (MIRA 18:9)

1. Khimicheskiy institut imeni A.Ye. Arbuzova AN SSSR.

TAYTH, N.Yu., prof.; SITKOVSKIY, I.S., kand.tekhn.nauk

Modernization of old-design pipe-welding furnaces. Biul.nauch.-
tekh.inform.VNITI no.4/5:135-142 '58. (MIRA 15:1)
(Furnaces--Technological innovations)

KOZHEVNIKOV, Ye.M., veterinarnyy vrach po boleznyam ptits; GOLYSHKIN, I.M.,
veterinarnyy vrach po boleznyam ptits; DMITRIYEVA, P.M.,
veterinarnyy vrach po boleznyam ptits; BABKINA, A.A., veterinarnyy
vrach po boleznyam ptits; TAYTLER, Ya.N., veterinarnyy vrach;
TACHANOV, A.T., veterinarnyy fel'dsher

Eliminating pasteurellosis in poultry. Veterinariia 42
no.8:8-10 Ag '65. (MIRA 18:11)

1. Voronezhskaya oblastnaya veterinarnaya laboratoriya (for
Khozhevnikov, Golyshkin, Dmitriyeva, Babkina). 2. Sovkhoz
"Buda-Koshelevskiy" Gomel'skoy oblasti (for Taytler, Tachanov).

TAYTOVICH, V.N.

"The problem of the formation of metastable compounds from elementary particles (positroniums)." by V. N. Taytovich (p 253)

SO: Zhurnal Eksperimentalnoi i Teoreticheskoi Fiziki, 1953
Vol 24 #3

TAYTS, A. A.

PA 3/49T36

USSR/Electricity
Power
Efficiency, Industrial

May 48

"Review of 'Economy of Electrical Power in Industry' Edited by V. I. Veyts;" Prof A. T. GOLOVAN, N. L. KAGANOV, R. Yu. MALAYA, A. D. SVENCHANSKIY, A. A. TAYTS, 3 pp

"Elektrichestvo" No 5, 1948

New 208-page book published in 1947 discusses economy of power in industry. Book, though it has a few errors, is valuable addition to wide field of technology and engineering.

TAYTS A. A.

PA 21/49T23

USSR/Electricity
Electrical Equipment
Motors, Electric

Oct 48

"Reports of the Meeting of Consumers and Manufacturers
of Electrical Equipment," A. A. Tayts, A. S.
Aleksandrov, Engineers, 1 1/2 pp

"Prom Energet" No 10

Summarizes following papers: "Prospects of Producing
General Purpose Asynchronous Motors up to 100 Kilo-
watts," "Main Types of Modern Winding Conductors,"
and "New Automatic Drives for Machine Building."
Lists points made by various engineers. Gives resolu-
tion calling for increased production of electric

~~SECRET~~

21/49T23

USSR/Electricity (Contd)

Oct 48

motors, starters, new-type insulated cables, etc.

~~SECRET~~

21/49T23

TAYTS, A. A.

"Procedure for Standardizing Specific Consumption of Electric Power," Collection of Data of the Scientific and Technical Session on Electric Power Economy (Sbornik materialov nauchno-tekhnicheskoy sessii po ekonomii elektroenergii), No II, MONITOE, 1949, 139 pp.

All-Union Scientific and Technical Society of Power Engineers Moscow Division, Industrial Electrical Engineering (Section)

W - 15368, 6 Dec 50

PA 33/49T33

USSR/Electricity
Power Supplies
Voltages

Feb 49

"The All-Union Scientific Technical Congress on Supplying Electricity to Industrial Enterprises," A. A. Tayts, Enger, 4 pp

"From Energet" No 2

Session was held from 7 - 11 Dec 48 in Moscow with about 270 people taking part. Thirty-five reports were submitted on power losses, relay protection, circuit checking, etc. Resolutions were adopted on voltage levels (necessity of introducing 10 - 35 kv in industrial systems), distribution

33/49T33

USSR/Electricity (Contd)

Feb 49

Installations and substations, testing, etc.

TAYTS, A. A.

LAITS, A. A.

USSR/Electricity

Electrical Equipment
Electrical Systems

Apr 49

"All-Union Scientific-Technical Session on Problems
of Electrical Equipment for Industrial Enterprises,"
A. A. Laits, Izv., 5 pp

"Elektrichestvo" No 4

39/49127
Session heard 35 reports on subject problems and
made certain recommendations on electrical supply
systems, voltage values, reducing losses, relay
protection, automation, dispatch systems, relay
distributing units and substations, and "prophylactic"
testing. The 10- to 35-kv voltage must be
introduced widely. Considers efficiency of
introducing 15-kv intermediate voltage. Future
substations will be placed in center of load to
increase power factor.

39/49127

PA 153T41

TAYTS, A. A.

USSR/Engineering - Power Consumption Nov 49
Industrial Economy

"Review of I. V. Gofman's Book, 'Principles for
Standardizing and Analyzing Power Consumption in
Industry,'" A. A. Tayts, Engr, 1 p

"Prom Energet" No 11

Book, intended for engineers and technicians of
industrial enterprises, is based on research done
by members of Leningrad Eng Econ Inst at in-
dustrial enterprises in 1946-1948. Tayts con-
siders many of the principles unsound, especially
those stated in connection with standardizing
statistical methods. Published by Lenizdat, 1949
196 pp, 6 rubles 50 kopecks,

153T41

TAYTS, A. A., Engr

PA 167T17

USSR/Electricity - Electrical Repair
Sessions, Technical

May 50

"Scientific and Technical Session on Repair of
Electrical Equipment," A. A. Tayts, Engr

"Elektrichestvo" No 5, pp 84-85

Conference held in Moscow, Dec 49, was organized by
Moscow Sci and Tech Soc of Power Engineers. Lists
authors and titles of 16 reports read, with brief
summaries.

 167T17

USSR/Electricity - Arc Welding

Dec 50

"Three-Phase Arc Welding," A. A. Tayts

"Prom Energet" No 12, pp 9-11

Describes equipment and performance of 3-phase arc welder originally (proposed by G. P. Mikhaylov, A. A. Kirillov, V. V. Stepanov and N. M. Leleko of Uralmashzavod and Ural Polytech Inst, who were awarded 3d Prize, in the 1949 All-Union Competition) Advantages: 2-3 times greater production; 20-30% lower power consumption, power factor raised from 0.5 to 0.6; increased weldability of alloy steel. Tayts believes 3-phase arc welding should find

213746

wide application in all branches of the national economy, particularly in welding large thicknesses, special alloy steels, or in correcting defects in steel castings, etc.

213746

TAYTS, A. A.

TAYTS, A. A.

USSR/Electronics - Industrial Instruments Dec 50

"Automatic Continuous Measuring and Control Device for Moisture in Finishing Warp," A. A. Tayts

"Prom Energet" No 12, pp 12,13

Describes subject device originally (proposed by N. V. Pashkov and Ye. G. Shvaytser, Spinning and Weaving Works) Invent P. Arslanov, who were awarded 4th Prize at the 1949 All-Union Competition.) The device consists of a transmitting element, pulse converter circuit using three 6W7 tubes (phase-sensitive detectors, pulse-amplifier, and trigger circuit), indicator, and control

213751

circuit for continuous measurement and control of moisture in finishing yarn warp in optimum limits of 7-9%. Equipment believed suitable for many industrial applications.

213751

TAYTS, A. A. (Engr)

"Discussion of a Soviet Book on Automatization of Electric Drives,"
Elektrichestvo, No.3, pp 85-86, 1951

Translation W-24075, 27 Sep 52

TAYTS, A. A.

USSR/Electricity - Literature	Nov 51
<p>"Review of 'The Electrician's Handbook,' Numbers 1, 2, 3 and 4, Under the General Editorship of A. D. Smirnov and P. F. Solov'yev," A. A. Tayts, V. I. Pogarskiy, M. D. Popov, Engineers, Moscow</p>	
<p>"Elektrichestvo" No 11, pp 95, 96</p>	
<p>The 1st 4 numbers of "The Electrician's Handbook" are the following: Ye. A. Proshchin's "Assembly of Cable Lines" 271 pp, R 13.50, 1946; P. F. Solov'yev's "Wires and Electric Lighting Installations 204 pp, R 10.50, 1950;</p>	
<p>201771</p>	
<p>USSR/Electricity - Literature (Contd) Nov 51</p>	
<p>D. V. Sokolov's "Assembly of Distribution Equipment for Substations Up to 35 KV" 328 pp, R 13.25, 1950; and K. D. Kofman's "Assembly of High-Power Electrical Equipment" 288 pp, R 12.25, 1950.</p>	
<p>201771</p>	

TAYTS, A. A.

USSR/Electricity - Drive, Electric Dec 51
Metallurgy

"Scientific and Technical Session on Electric
Drive in Ferrous Metallurgy," A. A. Tayts, Engr

"Elektrichestvo" No 12, pp 84-87

The session, held in Jun 51 in Moscow, was attended by 212 persons, including representatives of metallurgical plants, sci res institutes (IAT, TsNIITMASH, TsNIICHermet), higher technical schools, the Min of Ferrous Metallurgy, the "Elektroprivod" and "Energochermet" trusts, etc. Gives abstracts of reports submitted at session and the recommendations of the session.

201T86

TAITS, A.A.

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

BOOK

Call No.: TN686.T54

Authors: EFROIMOVICH, Yu.E., Cand. of Tech. Sciences
KRICHEVSKIY, G.M., Engineer
LEVITANSKIY, B.A., Engineer
MALAYA, R.Yu., Cand. of Tech. Sciences, deceased.
NEIFAKH, G.M., Cand. of Tech. Sciences
POPOV, M.D., Engineer
SMORODINSKIY, I.A. M., Cand. of Tech. Sciences
SOSUNOV, M.N., Engineer
STASYUK, V.N., Engineer
TAITS, A.A., Engineer
FEDOSEEV, L.M., Engineer
FEIGIN, V.I., Engineer
CHELYUSTKIN, A.B., Engineer
SHERENTIS, A.N., Engineer

Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL INDUSTRIES.

Transliterated Title: Spravochnik elektrika predpriyatii chernoi metallurgii

Publishing Data

Originating Agency: None.

Publishing House: State Publishing House of Scientific-Technical Literature on Ferrous and Nonferrous Metallurgy (Metallurgizdat). Moscow.

Date: 1952

No.pp.: 1167

No. copies; 14,000

1/2

TAITS, A.A.

00000058

2/2

Call No.: TN686.T54

Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL INDUSTRIES

Editorial Staff

Compiler: Tikhomirov, I.G., Engineer

Technical Editor: None.

Editors: Shalyapin, M.G.
Levitanskiy, B.A.

Appraiser: None.

Text Data

Coverage: A detailed handbook containing technical data on specifications, standards, design and operation of various types of electrical equipment in ferrous metallurgical industries: electric power supply plants and their distributing systems, transforming stations and transmission lines (high and low tension), blast furnace works, rolling mill plants, open-hearth plants, mines, electrical steel smelting and ferroalloy furnaces, sintering plants, coke plants, and electrical transport. Tables and diagrams. Subject index.

Purpose: A handbook for electrotechnical personnel, engineering technicians, machine operators, and planning personnel of metallurgical industries.

Facilities: None.

No. of Russian references: References listed at end of each chapter.

Available: Library of Congress.

1. TAYTS, A. A., Eng. : KABANOV, V. A.
2. USSR (600)
4. Electric Current Rectifiers
7. Accelerated continuous resetting of mercury rectifiers with two mercury pumps. Prom. energ. 9 No. 10, 1952
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

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INSTALLATIONS OF INDUSTRIAL ENTERPRISES." SUB 5 NOV 52, MOSCOW ORDER OF LENIN POWER
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Book on the electric supply of industrial enterprises. Elektrichestvo No. 3, 1953.

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532. Float-less device for automatic water filling of reservoirs. S. N. SUSLICH AND A. A. FAYTS. *Prom. Energ.*, 1953, No. 5, 7-8. In Russian.

Two steel strip electrodes, insulated from each other, extend down to the minimum permissible water level in the tank; a third one is at the maximum level. Water on falling below the minimum level opens selenium rectifier-telephone relay circuits, thereby starting the pumping equipment. This is stopped when water on reaching the third electrode closes another relay circuit. A time-delay thermal relay starts an alarm system when water due to any reason is retained below minimum level for a certain time, thus detecting pumping failures. The device is simple, cheap and reliable, and can save overpumping water and energy.

J. LUKASZEWICZ